



# Navigation and Radio Metric Tracking

## Overall Objective

Develop new tracking and navigation technologies to reduce operations costs, enable new mission capabilities, and reduce operational risk.

## Goals & Products

- Prototype S/W reconfigurable transceiver technology for integrated precision nav, high-rate (Mb/s) telecom
- Prototype Miniature Optical Correlator technology for precision landing and hazard avoidance
- Improve DDOR to 1-nrad for navigation
- Mission design tools for new aerobraking capabilities and spiraling trajectories
- Gimballed optical camera for navigation
- Software for in-flight demos of onboard autonomous navigation

